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NO. OF.....
XXVII is the present engineer
of the project, per Col:
Ranjan Giri 80
K. S. Nair
REPOS
'SITI

Dr. Kenneth Seott
Crocker Radiation Laboratory
University of California
Berkeley, California

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Enclosed are the results we obtained on the last shipment of paint samples. Results are in actual disintegrations per minute. Both beta and alpha results have been corrected for geometry and counter efficiency.

These samples were analyzed as follows:

The surface area of the various paint fragments were measured with a planimeter in order to give us a relation between total counts and surface area. The samples were then ground and weighed in order to establish disintegrations per gram. The samples were then digested with 4 N HCl and the solution filtered. A solution was then made up to volume, a small aliquot plated directly for beta counting and another aliquot extracted for alpha activity by the cupferron procedure. These samples containing a large amount of iron were analyzed for alpha activity by carrying the plutonium directly with the lanthanum fluoride precipitation.

These analyses were done with somewhat greater care than the first group of samples you sent me. I am enclosing four copies of the results. You can give a copy to Capt. Welsh and send one to Commander Harris if you think it advisable to do so.

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Sincerely yours,

~~Classification changed to~~
by Authority of the U. S. Atomic
Energy Commission by

143

Wright Langham

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by authority of the U. S. Atomic Energy Commission.

Per J. D. Kraske (in charge in classification) (

Per [redacted] reason for making change in classification) (1)
By M. J. Dwyer 12/1/61
Reason for making the change, and date

(Signature of person making the change, and date)

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~~PAINT SAMPLES RECEIVED FROM BIKINI SEPTEMBER 26TH, 1946~~

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C.P.

Sample Code No.

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REPOSITORY

Los Alamos Nat'l Lab

COLLECTION

BOX NO TR 5787

FOLDER Operation CrossRoads

Description

USS-Nevada - 13th September

Bright red from bulk head of deck house
PNK 50

Grey Sample from #3 barbette

Ball Red sample from Stock

USS-Hughes DD 14th September
Paint samples from stock trunk.

L.S.T. 128 14th September. Paint
samples from bulk head of super-
structure Port PNK 50.

USS-Bremner - 14th September - APA 66

Paint samples main deck PNK 50 S.Y.B.
Side

Fabric from T-32. Sitting on fascia
deck.

USS-Salt Lake City - 15th September.
Paint Samples Oil deck PNK 50

L.S.T. 621 - 14th September. Paint
samples from top of superstructure
Oil dock.

USS-Brule - APA 66 - 14th September

Paint Samples Oil dock. Port PNK 70

Fabric from top on fascia.

L.S.T. 502 - 14 September. Paint
samples from main deck PNK - 50.

USS-Rhinelander - 14th September. DD 404.
Paint samples from stock trunk

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L.S.T. 545 - 13th September.
Paint sample main deck, port FRM 20.

#21

L.S.T. 520 - 13th September.
Paint samples main deck FRM 10 Midship.

#22

A

B

U.S.S. Pennsylvania - 13th September

Paint Samples #3 Barbotte

Fabric from rudder of FOF-6 located
on star board.

#23

A

B

U.S.S. Independence - 13th September.
C.V.L.-32.

Paint samples from bridge

Fabric from SW, rudder side facing
blast.

#24

A

B

Barrow APA-61 - 14th September.

Paint samples from bulk head of after
deck house S2B FR 130.

Fabric from POF midships.

#25

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Paint samples from Gauconade APA - Q 6
Main Deck 8th. 90 Frame - 13th September
Reg. No. 255-051.

#26

Paint Samples from USS Crittenton
APA-77 - Main Deck Port Frm. 150.
Reg. No. 255-029, 13th September

#27

(Weather Deck)

Paint Sample from Cabaret - APA-70
on Main Deck. Port Frms 150 - 12th
September. Reg. No. 255-036.

#28

Paint Sample from USS Mayrast 50-408
Sample taken from outside bulkhead of
after deckhouse. 8th. Frm. 150.
Reg. No. 255-023

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Description

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Paint Samples from USS New York.
Portside of the #4 turret. Reg. No.
288-027 - 12th September.

#20

Prins Eugene. Paint Sample from top of
Ready Box Cl deck Stb. Pm. 300.
Reg. No. 288-028. 12th September

#21

USS Darrow - Paint Samples Main Deck
Port Frame 30. Reg. No. 288-029 -
12th September.

#22

Sample Coral Planking off ship jack -
10th September. Reg. No. 288-030

#23

Paint Samples from USS Ralph Talbot
DD-390 - 7th September, 1946. Taken
from steel trunk (part). Reg. No.
288-024.

#24

Paint Sample from USS Palau AP-81
Taken on stb. side Pm. 300. Reg. No.
288-022.

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~~TOP SECRET~~

Sample Code No.	Beta disintegrations/min Per gram	Beta disintegrations/min Per cm ²	Alpha disintegrations/min Per gram	Alpha disintegrations/min Per cm ²
1 A	197,000	6,330	207	0.1
1 B	166,000	5,330	175	0.1
1 C	172,700	5,330	166.4	0.0
2	64,500	5,240	75.2	0.7
3	566,000	8,730	545	0.0
4 A	168,300	5,330	35.4	1.0
4 B	170,000	4,540	171	0.0
5	65,200	5,330	15.3	0.0
6	224,000	35,400	215	0.6
7 A	635,000	54,400	301	0.0
7 B	154,000	8,730	134	0.0
8	1,737,000	224,000	2540	1.0
9	864,000	45,400	65.3	0.0
10	47,200	5,330	14.3	0.0
11	116,000	15,330	1.4	0.0
12 A	27,300	2,330	0.3	0.1
12 B	244,700	3,070	85.0	1.0
13 A	360,000	37,470	220	0.7
13 B	172,300	8,330	9.0	0.0
14 A	80,100	2,115	1.5	0.1
14 B	107,000	5,330	77.0	0.2
15	24,730	2,035	6.8	0.0
16	642,000	35,730	7.9	0.7
17	3,670	1,057	2.7	0.7
18	4,230	423	2.0	0.1
19	1,000	160	0.5	0.0

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~~RESULTS OF BETA AND ALPHA ANALYSIS CONT.~~~~REF ID: A62444~~

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Sample Code No.	Beta disintegrations/min		Alpha disintegrations/min	
	Per gram	Per cm ²	Per gram	Per cm ²
20	200,000	87,300	13.3	25.0
21	195,000	86,300	82.5	23.4
22	204,000		701	
23	77,500	16,100	12.5	2.2
24	222,000	14,700	43.1	8.6

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 of value to the defense of the United States. It is the property of
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